WHAT IS CLAIMED IS:

- 1. A method for adjusting dot-gain for a halftone binary bitmap file comprising:
- a) inputting a halftone binary bitmap file consisting of binary pixels to a digital filter;
- b) filtering the binary pixels with the digital filter and generating a weighted sum of the pixels;
 - c) producing a multilevel pixel from the weighted sum;
- d) comparing the multilevel pixel to a preset level and generating a binary pixel output; and
- e) collecting the binary pixel output and forming an adjusted halftone binary bitmap file.
- 2. The method of claim 1, wherein the digital filter is a blur filter, an edge enhancement filter, an averager filter, a high pass filter, a lower pass filter, or a band pass filter.
- 3. The method of claim 1, wherein the halftone binary bitmap file is generated by a raster image processor.
- 4. The method of claim 1, wherein the halftone binary bitmap file is generated from a high resolution scan of a halftone film.
- 5. The method of claim 1, wherein the halftone binary bitmap file is at a resolution of between 600 dpi and 6000 dpi.
- 6. The method of claim 5, wherein the halftone binary bitmap file is at a resolution of between 1800 dpi and 3000 dpi.
- 7. The method of claim 1, wherein the preset level is determined by the color separation that the halftone binary bitmap file represents.

- 8. The method of claim 1, wherein the halftone binary bitmap file will have been processed at a halftone binary bitmap screen ruling and a halftone binary bitmap screen angle.
- 9. The method of claim 1, wherein the preset level is determined by a halftone binary bitmap screen ruling.
- 10. The method of claim 1, wherein the preset level is determined by a halftone bitmap screen angle.
- 11. A method for adjusting dot-gain for a halftone binary print comprising the steps of:
- a) inputting a halftone binary bitmap file consisting of binary pixels to a digital filter;
- b) filtering the binary pixels with the digital filter and generating a weighted sum of the pixels;
 - c) producing a multilevel pixel from the weighted sum;
- d) comparing the multilevel pixel to a preset level and generating a binary pixel output;
- e) collecting the binary pixel output and forming an adjusted halftone binary bitmap file; and
 - f) printing the halftone binary bitmap file.
- 12. The method of claim 11, wherein the digital filter is a blur filter, an edge enhancement filter, an averager filter, a high pass filter, a lower pass filter, or a band pass filter.
- 13. The method of claim 11, wherein the halftone binary bitmap file is generated by a raster image processor.
- 14. The method of claim 11, wherein the halftone binary bitmap file is generated from a high resolution scan of a halftone film.

- 15. The method of claim 11, wherein the halftone binary bitmap file is at a resolution of between 600 dpi and 6000 dpi.
- 16. The method of claim 15, wherein the halftone binary bitmap file is at a resolution of between 1800 dpi and 3000 dpi.
- 17. The method of claim 11, wherein the preset level is determined by the color separation that the halftone binary bitmap file represents.
- 18. The method of claim 11, wherein the halftone binary bitmap file will have been processed at a halftone binary bitmap screen ruling and a halftone binary bitmap screen angle.
- 19. The method of claim 11, wherein the preset level is determined by a halftone binary bitmap screen ruling.
- 20. The method of claim 11, wherein the preset level is determined by a halftone bitmap screen angle.
- 21. A method for adjusting dot-gain for a printing plate comprising the steps of:
- a) inputting a halftone binary bitmap file consisting of binary pixels to a digital filter;
- b) filtering the binary pixels with the digital filter generating a weighted sum of the pixels;
 - c) producing a multilevel pixel from the weighted sum;
- d) comparing the multilevel pixel to a preset level and generating a binary pixel output;
- e) collecting the binary pixel output and forming an adjusted halftone binary bitmap file; and

- f) exposing a printing plate to the adjusted halftone binary bitmap file.
- 22. The method of claim 21, wherein the digital filter is a blur filter, an edge enhancement filter, an averager filter, a high pass filter, a lower pass filter, or a band pass filter.
- 23. The method of claim 21, wherein the halftone binary bitmap file is generated by a raster image processor.
- 24. The method of claim 21, wherein the halftone binary bitmap file is generated from a high resolution scan of a halftone film.
- 25. The method of claim 21, wherein the halftone binary bitmap file is at a resolution of between 600 dpi and 6000 dpi.
- 26. The method of claim 25, wherein the halftone binary bitmap file is at a resolution of between 1800 dpi and 3000 dpi.
- 27. The method of claim 21, wherein the preset level is determined by the color separation that the halftone binary bitmap file represents.
- 28. The method of claim 21, wherein the halftone binary bitmap file will have been processed at a halftone bitmap screen ruling and a halftone binary bitmap screen angle.
- 29. The method of claim 21, wherein the preset level is determined by a halftone binary bitmap screen ruling.
- 30. The method of claim 21, wherein the preset level is determined by a halftone bitmap screen angle.